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**APPLICATION
FOR
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LETTERS PATENT**

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FOR: SIDE LOCK APPARATUS FOR STORAGES

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SIDE LOCK APPARATUS FOR STORAGES

BACKGROUND OF THE INVENTION

1. Field of the Invention

5 The present invention relates to an improvement in a side lock apparatus for opening and closing members, such as, for example, a glove box fixed to an instrument panel of an automobile so that the glove box can be opened and closed.

10 2. Description of the Related Art

 A related art side lock apparatus of this kind is formed (refer to, for example, JP-A-4-60079) by supporting left and right link levers rotatably via shafts in a housing fixed in a central portion of a glove box body (not
15 concretely shown), providing at upper end portions of the left and right link levers a pair of latches which enter and get out of lock holes made in an instrument panel, and fixing between lower end portions of the left and link levers a tension coiled spring which urges the
20 two latches in the direction in which the latches constantly engage the interior of the lock holes.

 When the glove box body is in a closed state, the free end portions of the latches which are provided on the upper end portions of the left and right link levers
25 are engaged with the opposed left and right lock holes

of the instrument panel, and the glove box is thereby locked in its closing position. In order to open this glove box by releasing the glove box from the locked state thereof, projecting arms provided so as to face the intermediate portions of the left and right link levers are pressed down by a turning operation of the operating handle against the urging pressure of the tension coiled spring. As a result, the left and right link levers are turned in the direction opposite to the urging direction, so that the free end portions of the latches are moved back from the lock holes. This enables the glove box to be moved in its opening direction.

The operating handle in the related art side lock apparatus is supported via a shaft on a bearing member set up on the side of the housing so that the operating handle can be turned. Under the circumstances, in vehicles of right steering wheel specifications and left steering wheel specifications used in countries of different traffic laws, the positions in which the glove box is provided differ from each other. Therefore, in order to provide the operating handle of the side lock apparatus in a position other than a central portion of the glove box, it was necessary that the side lock apparatus including the operating handle be changed in the vehicles of the respective specifications. Even when the

operating direction and operating system of the operating handle are necessarily changed due to the conditions and character of countries or fashion, a change of design of the side lock apparatus is made every time under
5 compulsion.

SUMMARY OF THE INVENTION

The present invention has been developed so as to effectively solve the problems of such a related art side
10 lock apparatus, and a first aspect of the invention employs a structure in which a opening and closing member is fixed to a support member so that the opening and closing member can be opened and closed, left and right latches being movably held on the opening and closing member, each of
15 the left and right latches being urged by a pressure of a spring means toward a lock hole formed in the support member, a free end portion of each of the latches being moved back from the lock hole in the support member against the spring means by an operation of the operating handle,
20 wherein the left and right latches are operatively connected together via a link lever supported rotatably via a shaft on the opening and closing member, the operating handle being provided with an operating portion engageable with the latches, at least one latch being provided with
25 not smaller than two contact surfaces engageable with

the operating portion of the operating handle.

Besides, the opening and closing member may be a box-shaped storage which can store articles, or a lid which opens and shuts the opening of a fixed box-shaped storage.

A second aspect of the invention is based on the first aspect of the invention, and employs a structure in which the opening and closing member is provided with a member for retaining one latch movably, the retainer member being detachable with respect to the opening and closing member and supporting the operating handle so that the operating handle can be turned or pressed.

A third aspect of the invention is based on the first aspect and the second aspect of the invention, and employs a structure in which the latch is provided with a projection-carrying elastic member, the link lever being provided with recesses engageable with the projection, the thickness of the link lever being smaller than that of the latch.

A fourth aspect of the invention is based on the first aspect to third aspect of the invention, and employs a structure in which the left and right latches have shaft portions at their respective rear ends, and holes through which the shaft portions of opposite latches are inserted, each of the holes having a brake means, one shaft portion

being provided with a spring means.

A fifth aspect of the invention is based on the second aspect to fourth aspect of the invention, and employs a structure in which the latch has an elastic claw for tentatively fixing the retainer member.

In the first aspect of the invention, at least one latch has not smaller than two contact surfaces engageable with the operating portion of the operating handle. Therefore, when the position of the operating handle is changed freely along the latch with the operating portion of the operating handle kept engaged with the corresponding contact surface, it becomes possible to move back the free end portions of the left and right latches from the lock holes in the support member against a force of the spring means. This enables various operating directions and various operating systems of the operating handle to be provided.

In the second aspect of the invention, the retainer member supporting the operating handle so that the operating handle can be turned or pressed is made detachable with respect to the opening and closing member. Therefore, when the retainer member is fixed to an arbitrary portion of the opening and closing member, the position in which the operating handle is provided can be changed freely in a corresponding manner. In the third

aspect of the invention, the thickness of the link lever is set smaller than that of the latch. Therefore, the thickness of the latch as a whole becomes small, and the thickness of the side lock apparatus itself can also be reduced. Therefore, a space capable of being taken to utilize for the opening and closing member of goods in this side lock apparatus can be enlarged as compared with that in the related art apparatus of this kind.

In the fourth aspect of the invention, the shaft portions are inserted through the opposed holes. Therefore, the resultant parts themselves complete a frame structure, which can withstands the deformation ascribed to torsional moment and the like. Since the holes have brake means, the unpleasant striking sound occurring when each latch fits into and comes out from the lock hole can be prevented. In the fifth aspect of the invention, an elastic claw for tentatively fixing the latch to the retainer member is provided. Therefore, the side lock apparatus can be delivered with the latches and retainer members in a tentatively combined state, and this causes the operation efficiency to be improved.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is an exploded perspective showing from the side of an outer panel left and right latches provided

in a mode of embodiment of the side lock apparatus according to the present invention.

Fig. 2 is an exploded perspective showing left and right latches from the side of an inner panel.

5 Fig. 3 is a sectional view of a principal portion of the apparatus, showing the condition of an end hole of a link lever engaged with a projection of an elastic member.

10 Fig. 4 is an exploded perspective showing a vertically turning type operating handle and its retainer member.

Fig. 5 is a sectional view of a principal portion of the apparatus, showing the condition of a latch moved back by the vertically turning type operating handle.

15 Fig. 6 is an exploded perspective showing a laterally turning type operating handle and its retainer member.

Fig. 7 is a sectional view of a principal portion of the apparatus showing the condition of a latch moved back by the laterally turning type operating handle.

20 Fig. 8 is an exploded perspective showing a push type operating handle and its retainer member.

Fig. 9 is a sectional view of a principal portion of the apparatus, showing a latch moved back by the push type operating handle.

25 Fig. 10 is an exploded perspective showing a slide

type operating handle and its retainer member.

Fig. 11 is a sectional view of a principal portion of the apparatus, showing the condition of a latch moved back by the slide type operating handle.

5 Fig. 12 is an exploded perspective showing another example of the contact surface with which the operating portion of the operating handle is engageable and another example of the retainer member.

10 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The present invention will now be described on the basis of an illustrated preferred mode of embodiment thereof. The side lock apparatus in this mode of embodiment is also applied to a glove box fixed to an
15 instrument panel of an automobile so that the glove box can be opened and closed. A body of the glove box is formed on the premise that the body is supported on a shaft rotatably with respect to a hollow of the instrument panel.

In this mode of embodiment, the left and right latches
20 held movably between an outer panel and an inner panel in a designed wall of the glove box body are formed as shown in Fig. 1 and Fig. 2. The two latches are formed so that the latches are vertically superposed on each other and can be connected together operatively in the
25 vertical direction by bending one latch 1A upward at a

rear end portion thereof and bending the other latch 1B downward at a rear end portion thereof; providing shaft portions 2, which are inserted through the interior of holes 3 which will be described later, and which have
5 slip-off preventing claws, on rear end surfaces of the latches 1A, 1B so that the shaft portions are integral therewith; providing bent root portions of the latches with the holes 3, through which the shaft portions 2 are inserted; inserting the opposite shaft portions 2 through
10 the holes 3 in the opposite directions, by which a frame structure is formed in these portions, the structure being able to withstand deformation ascribed to torsional moment and the like.

Owing to the power transmitted from operating
15 handles 10A, 10B, 10C, 10D, which will be described later, to the first-mentioned clutch 1A, a link lever 5, which will be described later, is turned, so that the power is transmitted to the second-mentioned latch 1B to cause the glove box body to be opened. The latches 1A, 1B and
20 link lever 5 are connected together owing to the loose engagement of projections 4a and end bores 5a, which will be described later, and the engagement of the link lever 5 and support posts (not shown) serving as fulcrums of rotation is also made with clearances left therebetween.
25 Therefore, there is the possibility, when the opening

power transmitted from the operating handles 10A, 10B, 10C, 10D to the latch 1B is transmitted to the link lever 5, that a torsional force and torsional moment work on the latch 1B due to the reaction force and reaction of the link lever 5 twisted during the transmission of the opening power. However, in this mode of embodiment, the bent portion of the latch 1A and that of the latch 1B are formed to a frame structure by connecting these bent portions together by their respective shaft portions 2 so that the frame structure surrounds the link lever 5. Therefore, the geometrical moment of inertia can be improved. This enables the frame structure to sufficiently resist the torsional force and torsional moment even when there are not sliding support members for the latches 1A, 1B in the vicinity of the link lever 5.

The latches 1A, 1B are engaged with lock holes of the instrument panel, and the end surfaces of the slip-off preventing claws 2a on the respective shaft portions 2 impinge upon end surfaces of the opposed holes. Therefore, a quantity of engagement of each latch with respect to the lock hole is limited, and the movements of the latches 1A, 1B are stopped to cause the glove box body to be closed with respect to the instrument panel. Under the circumstances, grease of a high viscosity is injected

into the holes 3 in this mode of embodiment to cause a braking force to be displayed between the shaft portions and holes 3. Also, such grease of a high viscosity is applied between the slip-off preventing claws 2a and holes 5 3, and an impact occurring at the time of the collision of the end surfaces of the slip-off preventing claws 2a with those of the holes 3 thereby is lessened. The occurrence of a striking sound is thereby restrained. The present invention is not limited to this embodiment. 10 The occurrence of a striking sound can also be held down by lessening an impact occurring at the time of the collision of the mentioned end surfaces by O-rings provided between the slip-off preventing claws 2a and holes 3, or by using a simple air damper formed by fitting 15 O-rings around the shaft portions 2 and making in the holes 3 air discharge holes of a fine cross-sectional area which communicates inner portions of the holes 3 and the outside air with each other.

In addition to these techniques, the left and right 20 latches 1A, 1B are recessed at intermediate sections of their respective bent portions, and elastic members 4 having projections 4 are provided in the recessed regions so that the elastic members 4 are integral with the recessed regions. The projections 4a of the elastic members 4 are 25 fitted in the end bores 5a constituting recesses formed

at both end portions of the link lever 5, and the left and right latches 1A, 1B are thus connected together so that the latches 1A, 1B can be moved together.

A compression coiled spring 6 constituting a spring means
5 for urging free end portions of the left and right latches 1A, 1B toward the lock hole formed in the instrument panel is fitted around the shaft portion 2 of the second-mentioned latch 1B. The link lever 5 mentioned above is supported rotatably via a shaft on a support
10 post (not shown) provided on an outer panel via a central bore 5b of the link lever. As shown in Fig. 3, the thickness of the link lever 5 is set so that the thickness becomes smaller than that of the latches 1A, 1B, and the latches 1A, 1B as a whole are thereby made thin. Since the side
15 lock apparatus can be made thin owing to such thin link lever and latches conjointly with the effect of the latches 1A, 1B in a vertically superposed condition. This enables a space capable of being utilized effectively of the glove box can be taken widely as compared with that in the related
20 art side lock apparatus.

Flat side surfaces, which face the outer panel, of the left and right latches 1A, 1B are provided as shown, especially, in Fig. 1 with a plurality of sets of a blind type first engagement bore 7 and a through type second
25 engagement hole 8 in a combined relation at predetermined

intervals. The portions of the flat side surfaces facing an inner panel which are close to free ends of the latches are provided as shown in Fig. 2 with elastic claws 9 adapted to tentatively fix retainer members 11A, 11B, 11C, 11D which maintain the first-mentioned latch 1A (which will be described later) movably. The side lock apparatus is formed so that, when the latches 1A, 1B and retainer members are delivered in a tentatively combined state, the efficiency of assembling work can be improved. In each first engagement hole 7, a contact surface 7a extending at right angles to a line along which the latches 1A, 1B are moved is formed. In each second engagement hole 8, a contact surface 8a inclined with respect to the line along which the latches 1A, 1B are moved is formed. Referring to Fig. 2, the holes seen in side surfaces of the latches 1A, 1B are the through hole type second engagement holes 8 mentioned above.

Therefore, in order to use the operating handle 10A adapted to be turned vertically from the lower side to the upper side for the left and right latches 1A, 1B of such construction, a retaining hole 12 for holding the free end portion of the latch 1A movably, a shaft portion 14 fitted in bearing holes 13 of the operating handle 10A, fixing members 15 secured to the outer panel, and an insert hole 17 from which a tapering operating portion

16A of the operating handle 10A is inserted into the interior of the retaining hole 12 are first formed in the retainer member 11A for the operating handle 10A as shown in Fig. 4. The operating handle 10A is provided
5 with bearing holes 13 at both sides thereof engaged with the shaft portion 14, and the tapering operating portion 16A inserted into the interior of the already-mentioned second engagement hole 8. The retainer member 11A shall support the operating handle 10A so that the operating
10 handle 10A can be turned, by engaging the bearing holes 13 and the shaft portion 14 with each other.

When the retainer member 11A is opposed to an arbitrary second engagement hole 8 and screwed to the outer panel via the fixing members 15 as the free end
15 portion of the latch 1A is inserted into the retaining hole 12 of the retainer member 11A, the tapering operating portion 16A of the operating handle 10A supported on the retainer member 11A is inserted into the second engagement hole 8. In this case, the free end portion only of the
20 latch 1A is held via the retainer member 11A, while the free end portion of the latch 1B is held directly in the through hole made in a side wall of the glove box body. Therefore, there is not the possibility that the operations of the two latches 1A, 1B are hampered. Of
25 course, it is needless to say that the free end portion

of the latch 1A be also held in a through hole.

The operating handle 10A is thereafter turned. As a result, the tapering operating portion 16A of the operating handle 10A is slidingly moved along the inclined
5 contact surface 8a of the opposed second engagement hole 8 as shown in Fig. 5. This sliding movement of the operating portion causes the free end portion of the latch 1A to be moved back from the lock hole of the instrument panel against the urging pressure of the compression
10 coiled spring 6, and the free end portion of the latch 1B to be also moved back at the same time from the lock hole owing to the operation of the link lever 5. This enables the glove box to be moved in the opening direction. Even when an operating handle turned vertically from the
15 upper side to the lower side is used, this embodiment shall be put to use on the same principle. When the operating handle 10A is released from the turning operation, the operating handle 10A returns to the original closed condition automatically by the urging
20 force of the compression coiled spring 6.

When an operating handle 10B turned laterally from the left side to the right side is used for the left and right latches 1A, 1B, a retainer member 11B for the same handle 10B is provided as shown in Fig. 6 with an insert
25 hole 17 from which a linear operating portion 16B is

inserted into the retaining hole 12, in addition to such retaining hole 12, shaft portions 14 and fixing members 15 as mentioned above. The operating handle 10B is provided with bearing holes 13 and linear operating portion 16B at one end side thereof, and operating member 11B shall support the operating handle 10B so that the operating handle 10B can be turned, by engaging the bearing holes 13 and shaft portions 14 with each other.

When the retainer member 11B is opposed to an arbitrary first engagement hole 7 and screwed to the outer panel via the fixing members 15 as the free end portion of the latch 1A is inserted through the retaining hole 12 of the retainer member 11B, the linear operating portion 16B of the operating handle 10B supported on the retainer member 11B is inserted into the first engagement member 7. In this case, the free end portion only of the latch 1A is also held via the retainer member 11B, while the free end portion of the latch 1B is held directly in the through hole formed in a side wall of the glove box.

The operating handle 10B is thereafter turned. As a result, the linear operating portion 16B of the operating handle 10B is slidably moved along the right-angled contact surface 7a of the first engagement hole 7 as shown in Fig. 7. This sliding movement of the sliding portion causes the free end portion of the latch 1A to be moved

back from the lock hole of the instrument panel against the urging pressure of the compression coiled spring 6, and the free end portion of the latch 1B to be also moved back at the same time from the lock hole owing to the
5 operation of the link lever 5. This enables the glove box to be moved in the opening direction. Even when an operating handle turned laterally from the right side to the left side is used, this embodiment shall be put to use on the same principle. When the operating handle
10 10B is released from the turning operation, the operating handle 10B returns to the original closed condition automatically by the urging force of the compression coiled spring 6.

When a push type operating handle 10C is used for
15 the left and right latches 1A, 1B as shown in Fig. 8, a retainer member 11C for the operating handle 10C is provided in addition to such retaining hole 12 and fixing members 15 as mentioned above with an insert hole 17 from which a tapering operating portion 16C of the operating
20 handle 10C is inserted into the retaining hole 12, slits 19 for regulating a traveling distance and a position of engagement legs 18 provided on the operating handle 10C, and walls 19a for guiding the movements of the engagement legs 18, while the operating handle 10C is
25 provided with a tapering operating portion 16C on a central

portion thereof, and four engagement legs 18 around the operating portion 16C. The operating handle 10C shall be supported by the retainer member 11C so that the operating handle 10C can be pressed in the direction
5 crossing the latches at right angles thereto, by inserting the engagement legs 18 into the slits 19.

The free end portions of the four engagement legs 18 are inserted into the slits 19 to obtain the condition in which inner surfaces of the engagement legs 18 are
10 brought into sliding contact with the guide walls 19a. When the retainer member 11C is opposed to an arbitrary second engagement hole 8 and screwed to an outer panel via the fixing members 15 as the free end portion of the latch 1A is inserted into the retaining hole 12 of the
15 retainer member 11C, the tapering operating portion 16C of the operating handle 10C supported by the retainer member 11C is inserted into the second engagement hole 8. In this embodiment, the free end portion only of the latch 1A is also held via the retainer member 11C, while
20 the free end portion of the other latch 1B shall be held directly in a through hole formed in a side wall of a glove box.

The operating handle 10C is pressed toward the retainer member 11C. As a result, the tapering operating
25 portion 16C of the operating handle 10C is slidably moved

along an inclined contact surface 8a of a second engagement hole 8 as shown in Fig. 9. This sliding movement of the operating portion causes the free end portion of the latch 1A to be moved back from the lock hole of the instrument panel against the urging pressure of the compression coiled spring 6, and the free end portion of the latch 1B to be also moved back at the same time from the lock hole owing to the operation of the link lever 5. This enables the glove box to be moved in its opening direction.

When the operating handle 10C is released from the pressing operation of the operating handle 10C, the operating handle 10C returns to the original closed condition automatically by the urging force of the compression coiled spring 6.

When a slide type operating handle 10D is used for the left and right latches 1A, 1B as shown in Fig. 10, a retainer member 11D therefor is provided in addition to such a retaining hole 12 and fixing members 15 as mentioned above with an insert hole 17 from which a linear operating portion 16D of the operating handle 10D is inserted into the retaining hole 12, and a recess-carrying support hole 20 supporting the operating handle 10D slidably, while the operating handle 10D is provided with the linear operating portion 16D at one end section thereof.

When the operating handle 10D is supported in the support

hole 20 with the flexure of the support hole 20 obtained, the operating handle 10D shall be supported by the retainer member 11D so that the operating handle 10D can be laterally pressed.

5 When the retainer member 11D is opposed to an arbitrary first engagement hole 7 and screwed to the outer panel via the fixing members 15 as the free end portion of the latch 1A is inserted into the retaining hole 12 of the retainer member 11D, the linear operating portion 10D of the operating handle 10D supported by the retainer member 11D is fitted in the first engagement hole 7 thereof. In this embodiment, the free end portion only of the latch 1A is also held via the retainer member 11D, and the free end portion of the latch 1B is held directly by a through 15 hole formed in a side wall of the glove box body.

 The operating handle 10D is thereafter pressed along the retainer member 11D. As a result, the linear operating portion 16D of the operating handle 10D is slidably moved along a contact surface 7a, which cross the relative latch 20 at right angles, of the first engagement hole 7 to cause the free end portion of the latch 1A to be moved back from the lock hole of the instrument panel against the pressure of the compression coiled spring 6, and the free end portion of the latch 1B to be also moved back at the 25 same time owing to an operation of the glove box. This

enables the glove box to be moved in the opening direction thereof. When the operating handle 10D is released from the turning operation, the operating handle 10D returns to the original closed condition automatically by the urging force of the compression coiled spring 6.

In the above-described embodiments, the operating handle 10A, 10B, 10C, 10D is supported in an arbitrary setting position via the retainer member 11A, 11B, 11C, 11D on the side of the latch 1A, and the present invention is not limited to these embodiments. Since a structure identical with that of the latch 1A is also given to the latch 1B, the operating handle 10A, 10B, 10C, 10D can also be supported in an arbitrary setting position via the retainer member 11A, 11B, 11C, 11D on the side of the latch 1B. In any case, the operating handle 10A, 10B, 10C, 10D can be supported in an arbitrary setting position by merely selecting the fixing position for the retainer member 11A, 11B, 11C, 11D which support the operating handle 10A, 10B, 10C, 10D so that the operating handle can be turned or pressed.

Since the operating handle 10A, 10B, 10C, 10D and latches 1A, 1B in this mode of embodiment exist on the front side and rear side respectively of the outer panel, the operating portion 16A, 16B, 16C, 16D of the operating handle 10A, 10B, 10C, 10D is necessarily inserted into

the interior of the engagement holes 7, 8 through openings (not shown) provided in the outer panel. When the setting position of the operating handle 10A, 10B, 10C, 10D is changed, the position of the above-mentioned opening of the outer panel has also to be changed at once but it is not necessary that the design of the side lock apparatus itself be changed.

The retainer members 11A, 11B, 11C, 11D which support the link lever 5 supported via a shaft, and operating handle 10A, 10B, 10C, 10D so that the operating handles can be turned or pressed, and which hold the latches 1A, 1B so that the latches can be slidably moved are all fixed to the rear side of the outer panel. Therefore, when the position in which the operating handle 10A, 10B, 10C, 10D is set is changed, the positions in which a support post (not shown) is set, which supports the link lever 5, and a fixing seat for the fixing members 15 of the retainer member 11A, 11B, 11C, 11D may only be changed simultaneously with the change of the position of the opening mentioned above. A design changing operation and the production of a manufacturing metal mold can also be carried out by a required minimum labor and at a required minimum cost.

As has been described above, the retainer member 11A, 11B, 11C, 11D holds the latches 1A, 1B slidably on

both sides of the contact surfaces 7a, 8a, so that an opening force can be transmitted from the operating handle 10A, 10B, 10C, 10D to the latches 1A, 1B smoothly even when the direction of the force is varied.

5 Therefore, when the common left and right latches 1A, 1B are used in this mode of embodiment, the position in which the operating handle 10A, 10B, 10C, 10D is set can be changed freely even in a vehicle of the right steering wheel specifications and left steering wheel
10 specifications, and even when the apparatus as a whole is not changed. The direction in which the apparatus is operated can also be changed freely by using a vertically turning type operating system and a laterally turning type operating system. The operating system can be
15 changed freely as well to a turning type system, a push type system and a slide type system. Therefore, it becomes unnecessary that the design of the side lock apparatus be changed each occasion.

 In the above-described embodiments, the contact
20 surfaces with which the operating portion 16A, 16B, 16C, 16D of the operating handle 10A, 10B, 10C, 10D is engaged are formed on the inner sides of the latches 1A, 1B but this invention is not limited to these embodiments. For example, as shown in Fig. 12, it is also possible to form
25 a contact surface 8a projecting from a side surface of

each of the latch 1A, 1B, and provide in the retainer member 11A, 11B, 11C, 11D with a recess allowing a movement of the projecting contact surface 8a. However, when the structures of the embodiments are employed, the reducing
5 of the thickness of the latches 1A can be done advantageously.

In either case, it is needless to say that, when the glove box body is in a closed condition (not concretely shown), the free end portions of the left and right clutches
10 1A, 1B fit in the corresponding left and right lock holes of the instrument panel, and lock the glove box in its closed position.

According to the present invention described above, at least one latch has not smaller than two contact surfaces
15 engageable with an operating portion of an operating handle owing to the employment of the above-described structure. Therefore, when the operating handle is actuated as the operating portion thereof is engaged with a corresponding contact surface by changing the position
20 of the operating handle freely along the latch, the free end portions of the left and right latches can be moved back from a lock hole of a support member against an urging spring means. This enables various directions in which the operating handle is moved and various systems for
25 moving the operating handles to be provided.